

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI  
P.O. BOX 176  
JEFFERSON CITY, MISSOURI 65102  
573-751-4041

## Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

WILLARD QUARRIES, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of  
limestone in the state of Missouri. The extent of the

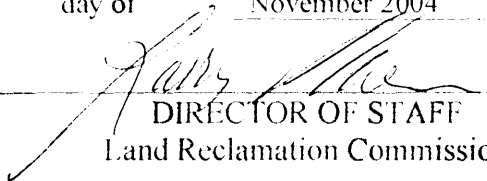
Proposed mining operation(s) will be on 155 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Laclede	01	34N	16W	10	0	10	Lebanon Quarry	0291
Laclede	28, 29	35N	15W	70	0	70	Sleeper Quarry	0292
Laclede	15, 22	35N	15W	10	0	10	Sleeper East Quarry	0289
Pulaski	24, 25	36N	11W	55	0	55	St. Robert Quarry	0290
Webster	01	31N	18W	10	0	10	Marshfield Quarry	0293

This permit may be suspended or revoked upon violation of any or all of the conditions set  
forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations  
as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 24th day of November 2004

  
DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No. 0210  
Effective Date 01/01/2005  
Expiration Date 12/31/2005

MS 780-1122 (6-95)

RECEIVED

NOV 10 2004

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

## PERMIT RENEWAL FORM FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND  
RECLAMATION COMMISSIONP.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <b>Willard Quarries, Inc.</b>		DATE <b>11/2/2004</b>	
ADDRESS <b>P.O. Box 1183</b>	CITY <b>Lebanon</b>	STATE <b>MO</b>	ZIP CODE <b>65536</b>
CONTACT PERSON <b>David Willard</b>		TELEPHONE NUMBER <b>(417) 532-2728</b>	

## FEES: COMPLETE SECTION I OR SECTION II

## SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

## 1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. Marshfield Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$150
2. Lebanon Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$150
3. St. Robert Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$300
4. Sleeper Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$300
5. Sleeper East Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$150
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$0
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$0
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$0
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$0
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$0
TOTAL SITE FEE		\$1,050

2. Acreage fee \$5 X 155 number of acres bonded..... \$775

3. Annual Permit Fee..... \$500

4. Total Fee (Add totals from 1, 2, and 3)..... \$2,325

NOTE: If Total Fee exceeds \$2,500.00 then pay only ..... \$2,500

## SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee..... \$300

SIGNATURE OF APPLICANT <i>David Willard</i>		TITLE <i>President</i>	DATE <i>11-9-04</i>
Appeared before me this <u>9</u> day of <u>Nov</u> , 20 <u>04</u> . <u>David Willard</u> to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSER SEAL	STATE OF <u>Mo</u>	COUNTY (OR CITY OF ST. LOUIS)	
	SUBSCRIBED AND SWORN BEFORE ME, THIS		
	<u>9</u> DAY OF <u>Nov</u> YEAR <u>04</u>		
	NOTARY PUBLIC SIGNATURE <i>Kim Amisinger</i>	MY COMMISSION EXPIRES <u>4-12-07</u>	USE RUBBER STAMP IN CLEAR AREA BELOW.
NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Kim Amisinger</u>		KIM AMSINGER Notary Public - Notary Seal STATE OF MISSOURI Washington County My Commission Expires April 12, 2007	
MEET USE ONLY: APPROVED BY <i>[Signature]</i>	DATE APPROVED <u>11/23/04</u>	PERMIT NUMBER <u>0210</u>	EXPIRATION DATE <u>12/31/2005</u>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Lebanon Quarry, LaCleda County		PERMIT NUMBER 92-210	
COMPANY NAME Willard Quarries			
COUNTY LaCleda	1/4 SECTION S1	SECTION 1	
TOWNSHIP T34N	RANGE R16W	ACRES 10	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Bill Don Willard and Louise I. Willard		
ADDRESS Route 5, Box 274		
CITY Lebanon	STATE Missouri	ZIP CODE 65536
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Bill Don Willard and Louise I. Willard		
ADDRESS Route #5, Box 274		
CITY Lebanon	STATE Missouri	ZIP CODE 65536
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

Lebanon



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: JAN 21, 1993 - JAN 21, 2068

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Area was woods and pasture land before mining.  
The soil name is gasconade and is 0-2' deep

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-2 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

We will use dozers and scrapers to remove topsoil and relocate it in a stockpile.

JAN 28 1993  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

We will use dozers and scrapers to remove topsoil and relocate. It will be graded and seeded to prevent erosion.

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DEC 21 1992

MISSOURI DEPARTMENT OF NATURAL RESOURCES

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from the pit will be placed in tall windrows of dirt to make a safety barrier between Highway 17 and the quarry property also between the quarry - adjoining property. After mining is done I will use my windrows of dirt to make slopes for my water impoundment

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

the Hwy 17 side of. The pit is on the property.

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JAN 28 1993

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YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

Lebanon

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**
**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

 water impoundments  
a slopes

B. SEEDING OR PLANTING TIME

After mining is complete

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

We will have little area to seed, since most of our 10 acres will be under water. What little we have above water will be disked and seed by hand.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	15		
clover	15		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

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Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES (AND RECLAMATION COMMISSION)	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
	<p>83</p> <p>JAN 8 1993</p> <p>REC'D</p> <p>OKLAHOMA RECLAMATION COMMISSION</p>		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The 10 acres will be a water reservoir. The slopes of the water reservoir will be graded and seeded. All slopes will be traversable by farm machinery

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

slope grading will occur after mining is completed. Grading including all topsoil replacement shall be complete within 12 months after the expiration of the permit or initial permit renewal.

**REPLACEMENT OF TOPSOIL**

The part of the slopes above water will have 2-4 inches of topsoil placed. Topsoil replacement shall be complete within 12 months after the expiration of the permit or initial permit renewal.

**REVEGETATION**

All area above water will be seeded. Seeding and planting shall be complete within 24-months after the expiration of the permit or initial permit renewal, with survival of vegetation by the second growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

1-2" + 10" to 11" to total 12" inches

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

JAN -

Agricultural (pasture, cropland, and horticultural)

slopes

RECLAMATION COMMISSION

1

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

9

Lebanon

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED  
JAN 25 1993  
MISSOURI LAND RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>David Willard</i>		TITLE <i>Manager</i>	DATE <i>1-25-93</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Laclede</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>25<sup>th</sup></i> DAY OF <i>Jan</i> 19 <i>93</i>		
	NOTARY PUBLIC SIGNATURE <i>Kim Amsinger</i>	MY COMMISSION EXPIRES <i>3-22-95</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Kim Amsinger</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Harvey [Signature]</i>		DATE APPROVED <i>4-27-94</i>	PERMIT NUMBER <i>210</i>

*Lebanon*

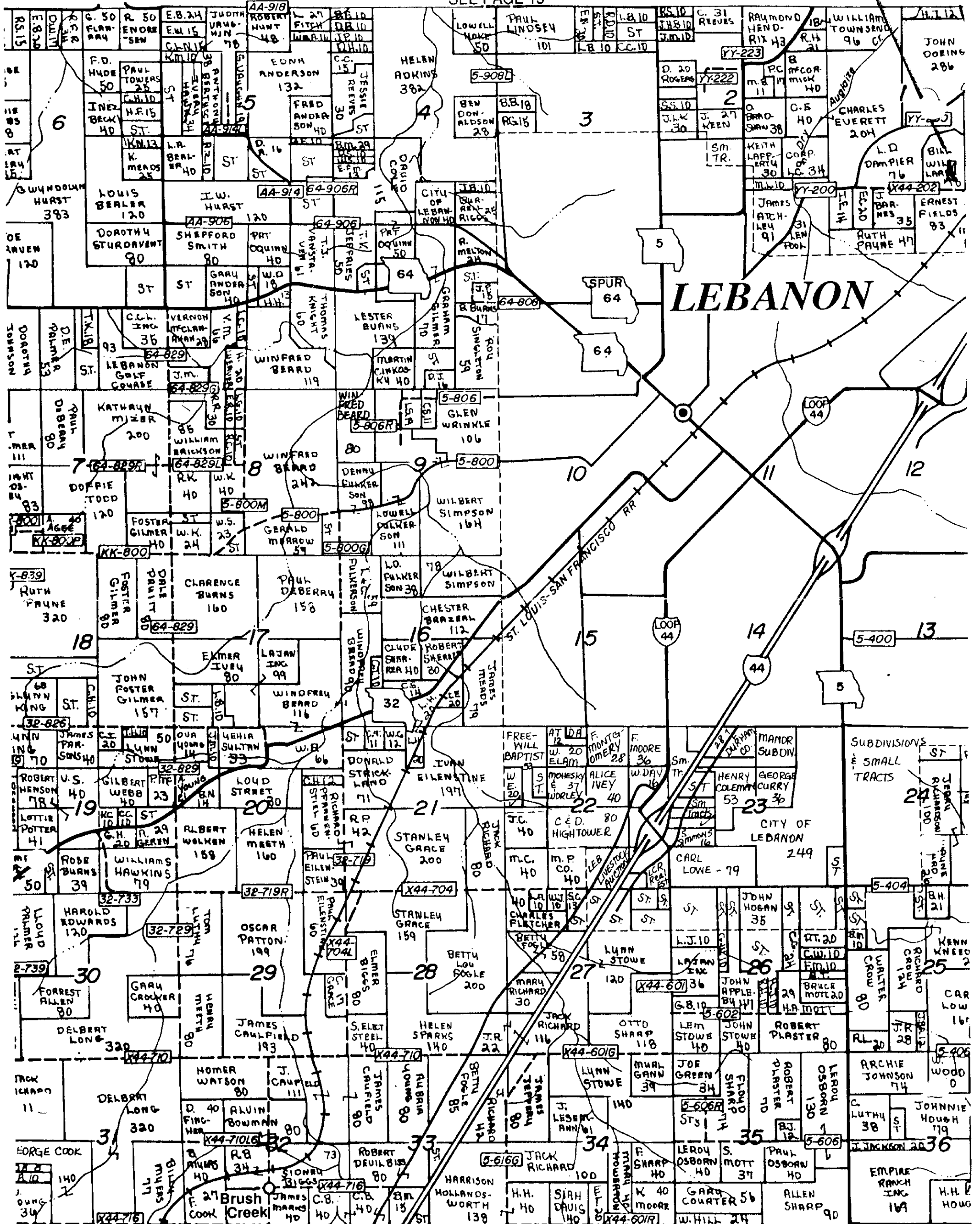


Lebanon, Mo. 64015  
1-34-16

Approximate  
location of 10 p.m. 1915

# TOWNSHIP 34 • RANGE 16

SEE PAGE 13



SEE PAGE 23

Lebanon Quarry

AH.B

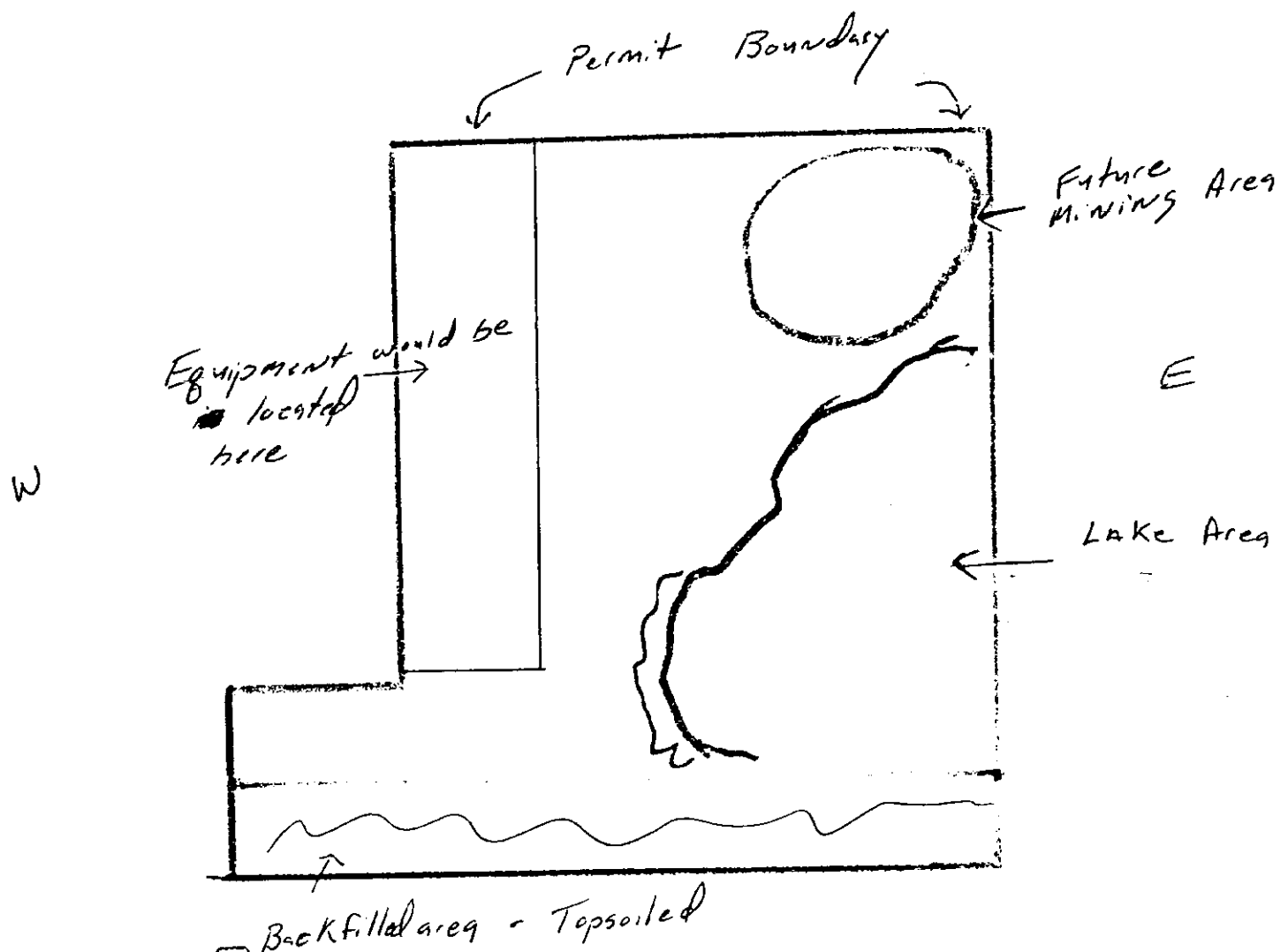
Not to Scale:

Laclede Co.

N

S1 T34N

R16W



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DEC 21 1992

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RECLAMATION COMMISSION

5

Lebanon Q



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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DEC 04 1997

To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND

SITE NAME OR NUMBER

Willard Quarries - Sleeper Quarry

PERMIT NUMBER

210

RECLAMATION COMMISSION

COMPANY NAME

Willard Quarries, Inc.

COUNTY

Laclede

1/4 SECTION

NW $\frac{1}{4}$  & SW $\frac{1}{4}$  of S28,  
NE $\frac{1}{4}$  of S29, & SE $\frac{1}{4}$  of S21

SECTION

28, 29, & 21

TOWNSHIP

35N

RANGE

15W

ACRES

20 + 40 = 60  
10 (currently permitted) +  
10 (expansion) = 20 (total) <sup>1/5/99</sup>

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

N/A

MINERAL COMMODITY

Limestone

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

Willard Quarries, Inc.

ADDRESS

P.O. Box 1183

CITY

Lebanon

STATE

MO

ZIP CODE

65536

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐

MINERAL DEED

☐

LEASE

☒

WARRANTY DEED

☐

VERBAL AGREEMENT

☐

OTHER (DESCRIBE):

DATE OF AGREEMENT

1992

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

Same as above.

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐

MINERAL DEED

☐

LEASE

☐

WARRANTY DEED

☐

VERBAL AGREEMENT

☐

OTHER (DESCRIBE):

DATE OF AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR Jan. 1, 1998 through  
☒ LONG TERM, FOR PERIOD THROUGH DATE: Jan. 1, 2098

MISSOURI LAND  
RECLAMATION COMMISSION

*Sleeper &*

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 287 acres (see Locator and Detail Maps). The area was woods and pasture land before mining. The soil name is Gasconade and is 0" - 2" thick above bedrock. The area is bordered to the southeast by the outer road to I-44 and to the northeast by Route F.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0 - 2 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Dozers and scrapers will be used to remove topsoil and relocate it in a stockpile.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The dozers and scrapers will be used to remove topsoil and relocate it in a stockpile. The stockpile will be graded and seeded with grass to prevent erosion.

*Sleeper &*

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The extra overburden will be used in creating future parking lots and building sites.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached map.

**YES NO**

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

*Sleeper &*

**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

Industrial Development

B. SEEDING OR PLANTING TIME

Whenever building is complete

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

The acreage will be a building site, so only a small part of the area will be landscaped. The landscaped area will have grass and shrubs. The equipment used will be a disk, with seed broadcast by hand.

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Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

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RECLAMATION COMMISSION

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	15	Burning bush shrubs	50
Clover	15		

VEGETATION MIX #2

None

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

*Sleeper*

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

The area will be a building site and parking area. All sloped areas will be graded to slopes traversable by farm machinery, including tractors with mowers or bushhogs.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done after quarry is no longer being excavated and equipment is gone. Final grading, including topsoil replacement, will be completed within one year after the expiration of permit or permit renewal on all mined-out portions.

**REPLACEMENT OF TOPSOIL**

Topsoil will be replaced after building sites are started and areas surrounding the building sites are known. All topsoil replacement shall be complete one year after the expiration of permit or permit renewal on all mined-out portions.

**REVEGETATION**

Seeding and planting will be done after buildings and parking lots are completed. Seeding and planting shall be complete within 24 months after the expiration of the permit or or permit renewal, with survival of vegetation by the second growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

The combined depth of topsoil (A horizon) + subsoil (B horizon) will be 12 inches.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

287

Water impoundments (for wildlife, agricultural, or development)

*Sleeper*

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DEC 04 1997

By my signature, I attest to the following:

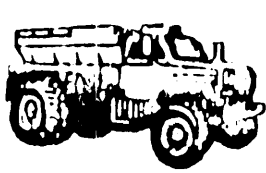
MISSOURI LAND  
RECLAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

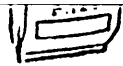
SIGNATURE OF APPLICANT <i>David Willard</i>		TITLE <i>P. W. O. K. Vice President</i> <del>Nov 26 1997</del>	DATE <i>Nov 26-1997</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Mo.</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Laclede</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>26</i> DAY OF <i>Nov.</i> 19 <i>97</i>		
	NOTARY PUBLIC SIGNATURE <i>Kim Amstrong</i>	MY COMMISSION EXPIRES <i>2/24/99</i>	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Kim Amstrong</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Christopher Schaefer</i>		DATE APPROVED <i>6/12/98</i>	PERMIT NUMBER <i>0210</i>

*Sleeper*





• Bag  
• Bulk



Custom Spreading  
Blending  
Chemicals  
Seed

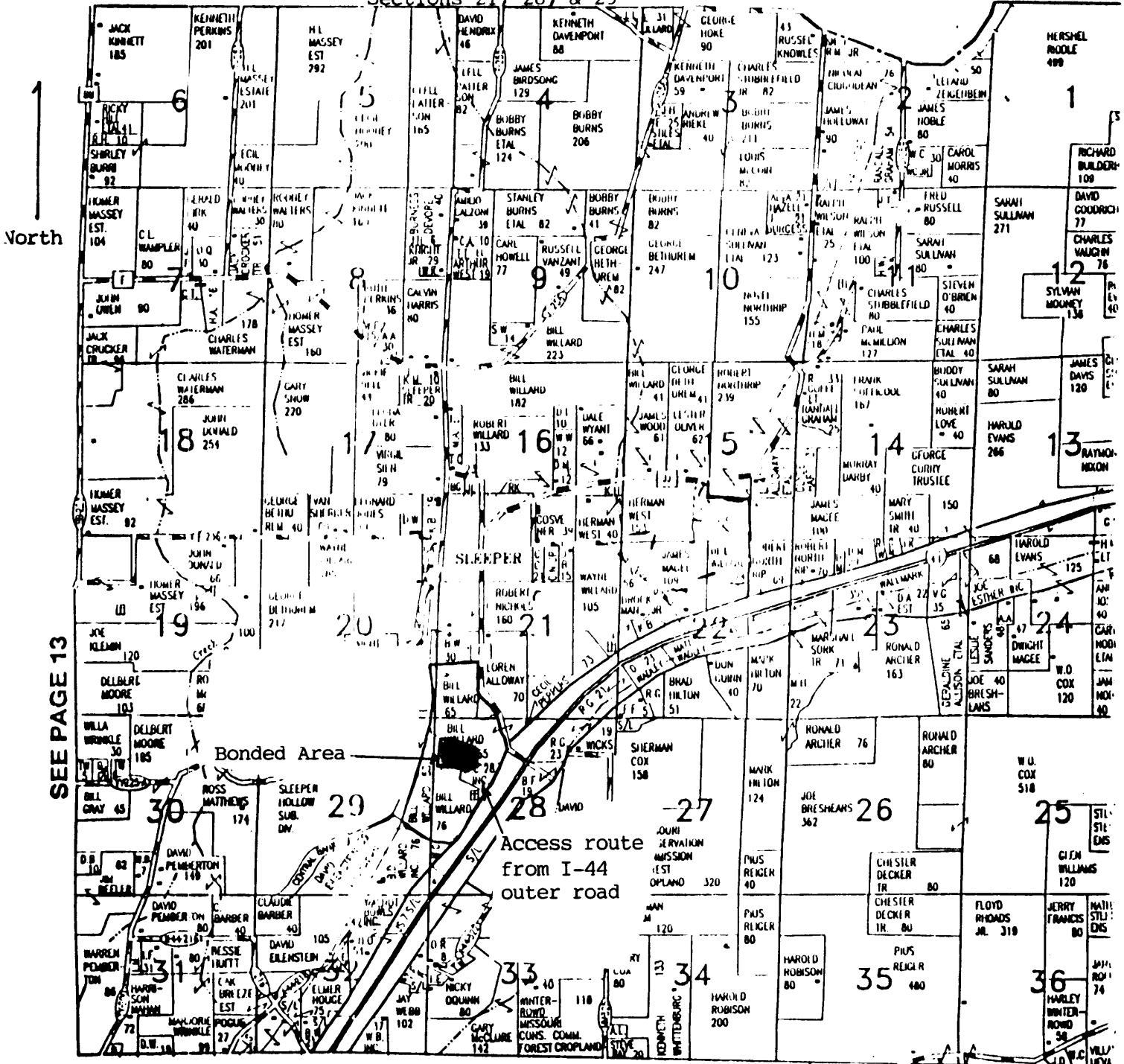
532-9354 320 W. Pierce St., Lebanon, Mo. 65536  
473-6320 Main Street, Niangua, Missouri 65713

LOCATOR MAP  
SEE PAGE 10

TOWNSHIP 35N • RANGE 15W

Laclede County

Sections 21, 28, & 29



Willard Quarries - Sleeper Quarry

SEE PAGE 18

Scale: 1" = 4400'

14 Prepared by: Curtis Heider, EEC  
11/10/97

© 1992 Miller Management Services, Inc.

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DEC 04 1997

MISSOURI LAND  
RECLAMATION COMMISSION

Property Owner: Willard Quarries  
Inc.

DETAIL MAP

Site Name: Sleeper Quarry

Scale: 1" = 533

Mine Plan Acres: 287

Prepared by:

Bonded Acres: 10 (existing),  
plus 10 (expansion)  
= 20 (total)

Curtis Heider, EEC  
11/10/97

Post-Mining Land Use: Industrial  
Development

Legal Description: NW $\frac{1}{4}$  (part) and  
SW $\frac{1}{4}$  (part) of  
Section 28;  
NE $\frac{1}{4}$  (part) and  
SE $\frac{1}{4}$  (part) of Section 29;  
SW $\frac{1}{4}$  (part) of Section 21;  
Township 35N; Range 15W

Hwy. F

North

Bonded Area  
(expansion)

Bonded  
Area  
(existing) 2

I-44

I-44 outer  
road

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DEC 04 1997

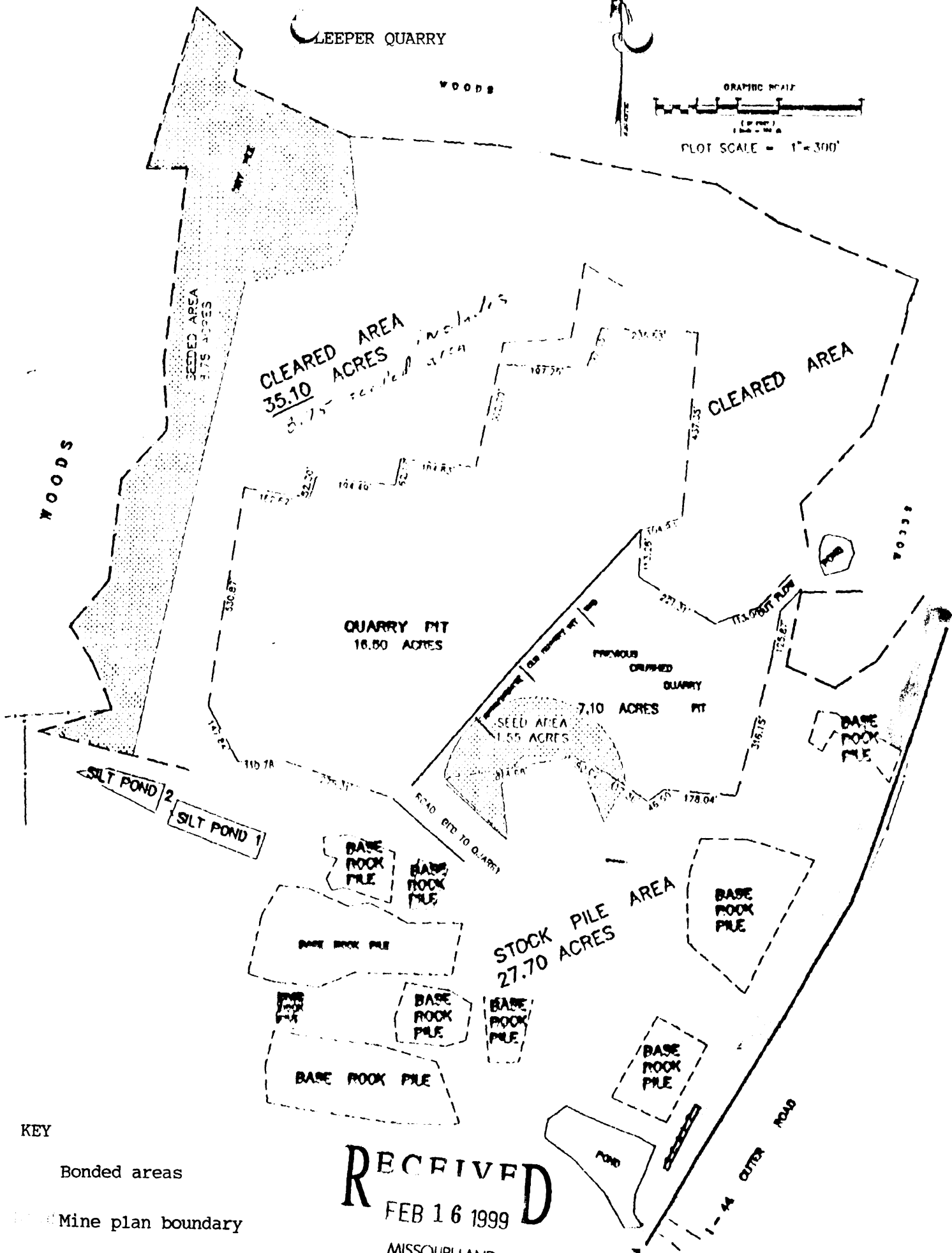
MISSOURI LAND  
RECLAMATION COMMISSION

LEEPER QUARRY

WOODS



PLOT SCALE = 1" = 300'



Property Owner: Willard Quarries  
Inc.

Site Name: Sleeper Quarry

Mine Plan Acres: 287

Bonded Acres: 20 (previously bonded)  
+ 40 (bonded in 1998)  
= 60

Post-Mining Land Use: Industrial  
Development

Legal Description: NW $\frac{1}{4}$  (part) and  
SW $\frac{1}{4}$  (part) of  
Section 28;  
NE $\frac{1}{4}$  (part) and  
SE $\frac{1}{4}$  (part) of Section 29;  
SW $\frac{1}{4}$  (part) of Section 21;  
Township 35N; Range 15W

DETAIL MAP

Scale: 1" = 533'

Prepared by:  
Curtis Heider, EFC  
2/11/99

North  
↑

KEY

Previously bonded acreage

■ Bonded in 1998

Mine Plan Area

Hwy. F

I-44

I-44 outer  
road

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FEB 16 1999  
MISSOURI LAND  
RECLAMATION COMMISSION

Property Owner: Willard Quarries, Inc.

Site Name: Sleeper Quarry

Mine Plan Acres: 287

Bonded Acres: 60 (previously bonded)  
+ 10 (bonded in 2003)  
= 70

Post-Mining Land Use: Industrial Development

Legal Description: NW 1/4 (part) and SW 1/4 (part) of Section 28; NE 1/4 (part) and SE 1/4 (part) of Section 29; SW 1/4 (part) of Section 21; Township 35N; Range 15W

DETAIL MAP

Scale: 1" = 532'  
Prepared by:  
Curtis Heider, EPR  
12/9/2003


**RECEIVED**

DEC 18 2003


MISSOURI LAND RECLAMATION COMMISSION

North

KEY

 Previously bonded acreage

 Bonded in 2003

 Mine Plan Area

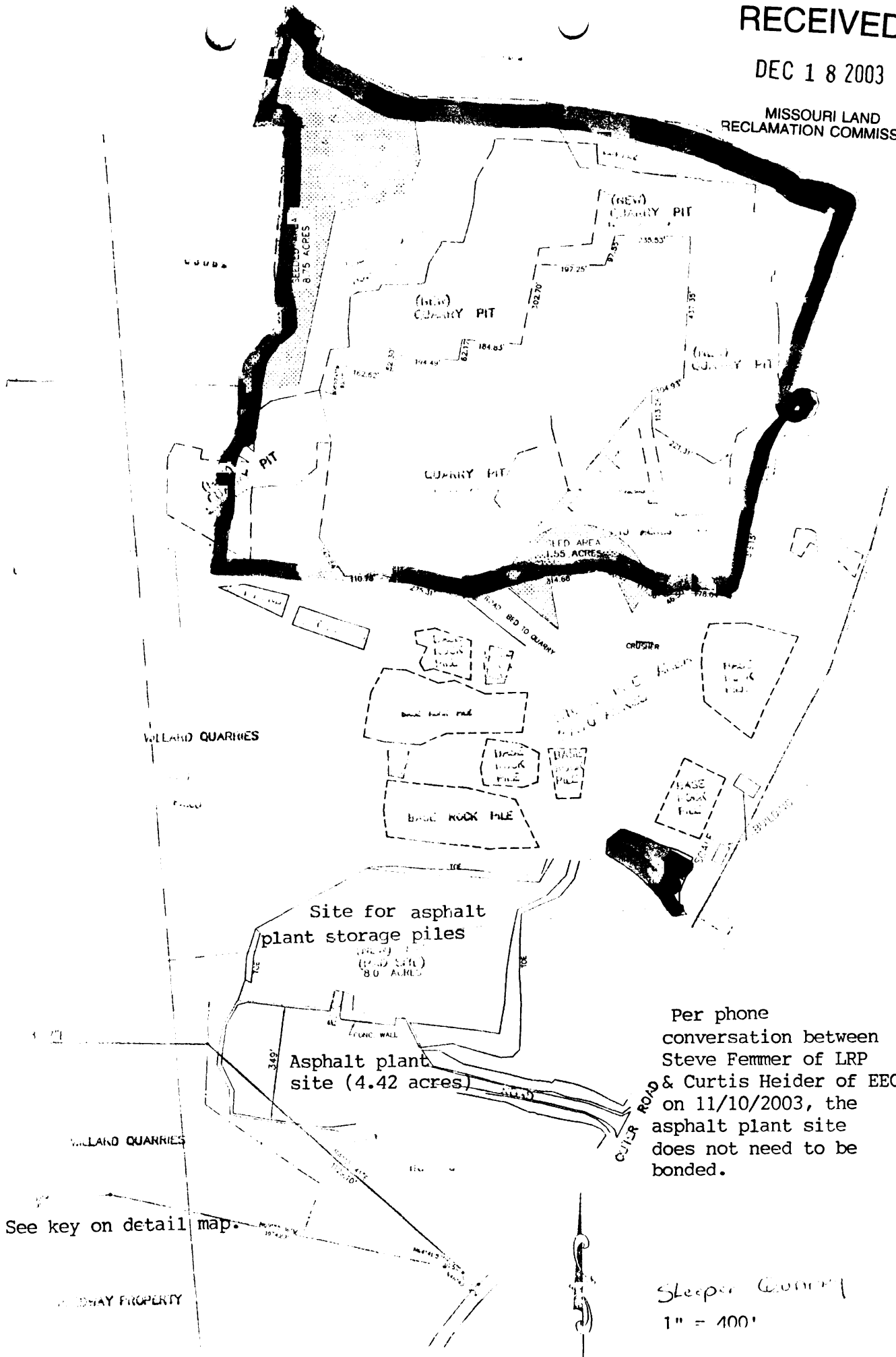


I-44 outer road

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MISSOURI LAND  
RECLAMATION COMMISSION





WILLARD QUARRIES, INC.  
Ct. Robert Quarry  
(formerly Old McDowell  
Quarry)  
Permit #0210


Landowner: Willard Quarries  
Inc.  
Parts of 124 & 125, T36N,  
R11W, Pulaski County

Post-mining land use:  
Industrial


KE1

Mine Plan Area 

Bonded Area (existing) 

Public Roads 

Dry Creek 

Amendment Bond Area  
(north of existing  
Bond Area) 

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18-2003

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RECLAMATION COMMISSION

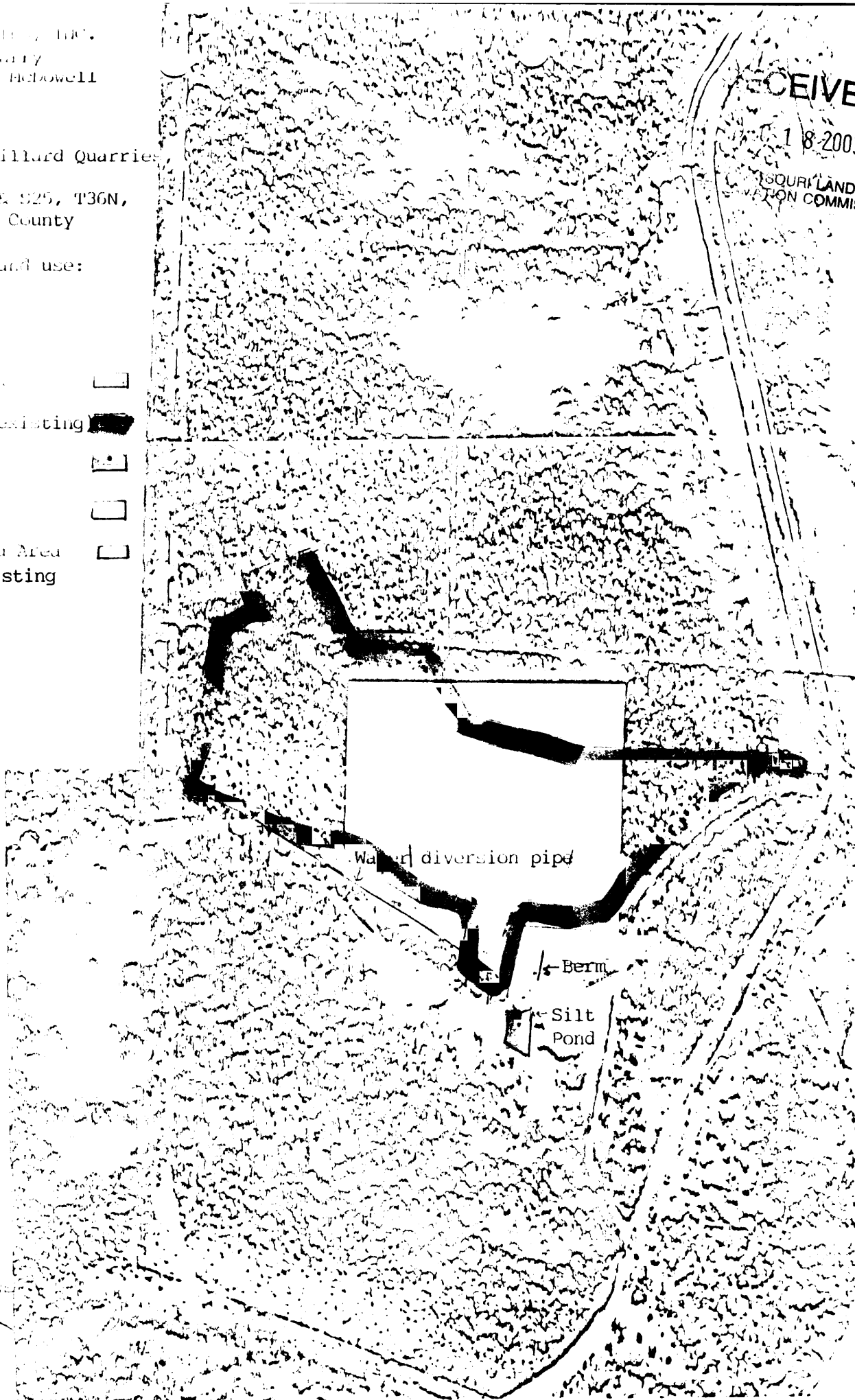


North

Scale:  
1" = 501.4'

Prepared by:  
Curtis Heider,  
INC, 12/9/2003

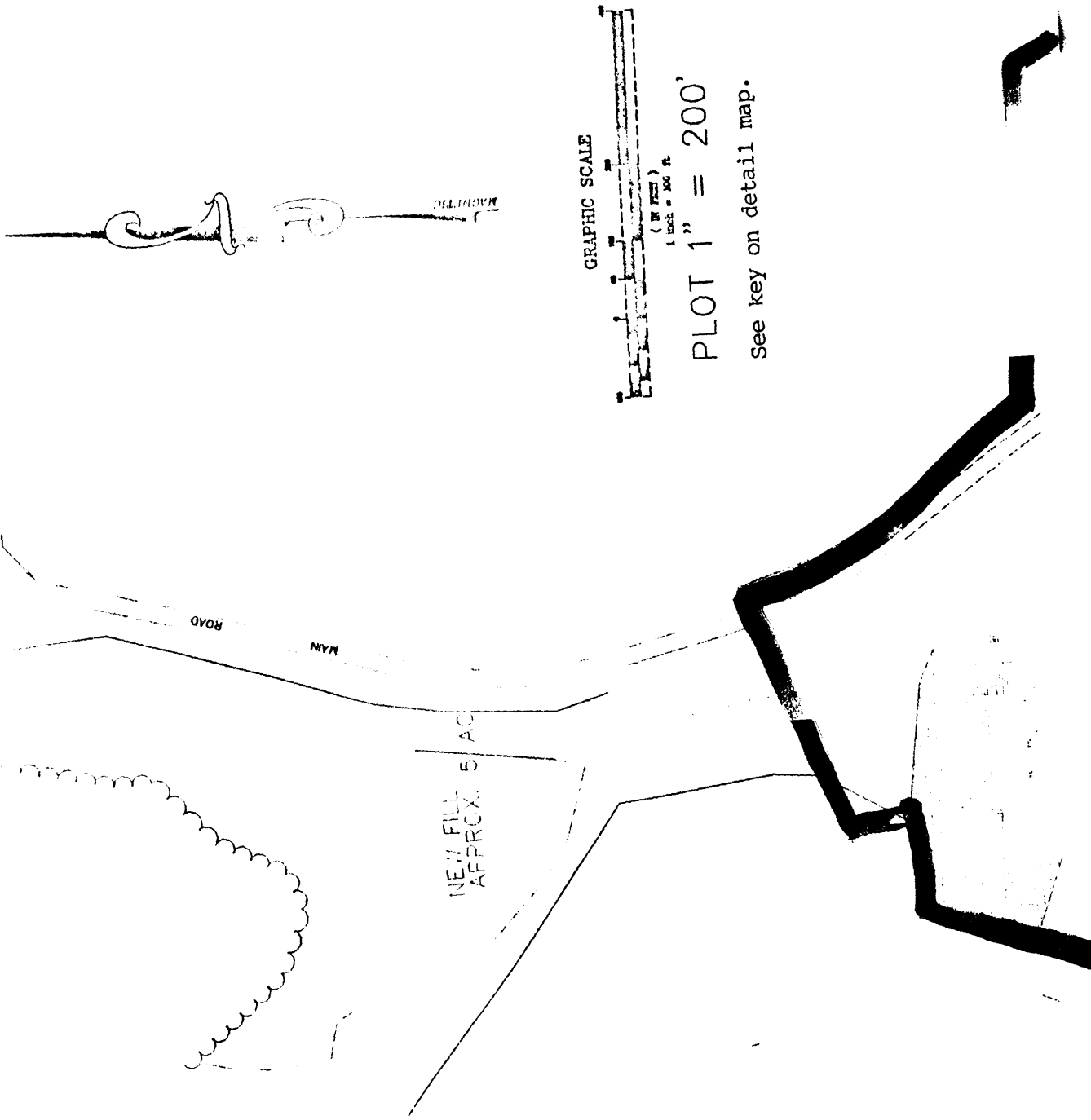
Dry Creek (flows  
along south  
border of Mine  
Plan Area)



RECEIVED

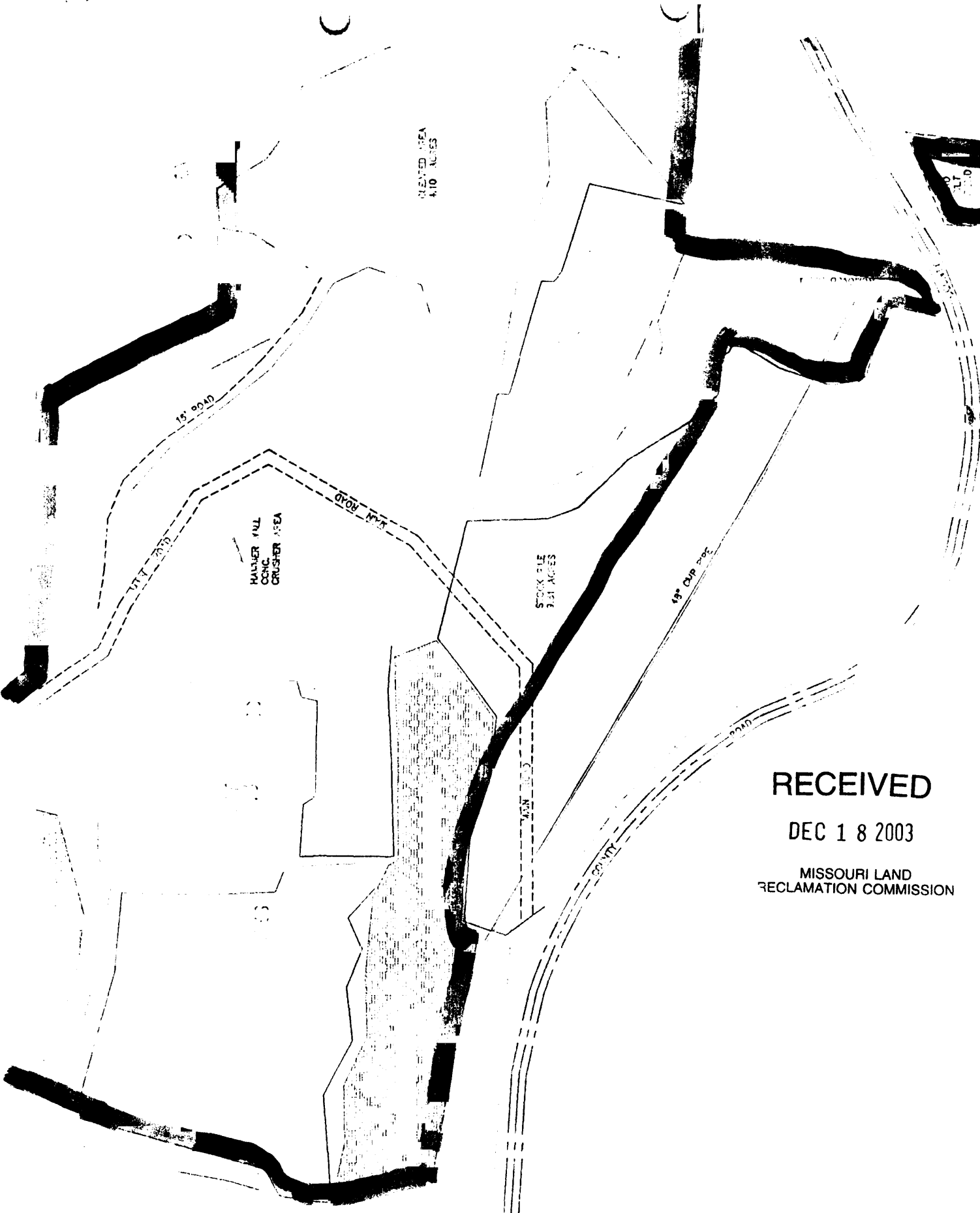
DEC 18 2003

MISSOURI LAND  
RECLAMATION COMMISSION





100' TRANSMISSION LINE EASTMENT



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RECLAMATION COMMISSION



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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To be completed for each separate area of disturbance associated with mining operations.

MISSOURI LAND  
RECLAMATION COMMISSION

SITE NAME OR NUMBER

Willard Quarries - Sleeper East Quarry

PERMIT NUMBER

210

COMPANY NAME

Willard Quarries, Inc.

COUNTY

Laclede

1/4 SECTION

SE $\frac{1}{4}$  & SW $\frac{1}{4}$  of S15,  
NE $\frac{1}{4}$  & NW $\frac{1}{4}$  of S22

SECTION

15 & 22

TOWNSHIP

35N

RANGE

15W

ACRES

10

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

N/A

MINERAL COMMODITY

Limestone

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

Willard Quarries, Inc.

ADDRESS

P.O. Box 1183

CITY

Lebanon

STATE

MO

ZIP CODE

65536

SOURCE OF RIGHT TO MINE (CHECK ONE)

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE): \_\_\_\_\_

DATE OF AGREEMENT

March, 1997

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

Same as above.

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐ MINERAL DEED

☐ LEASE

☐ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE): \_\_\_\_\_

DATE OF AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
MINE PLAN

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: Jan. 1, 1998 through Jan. 1, 2098

*Sleeper East*

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 336 acres (see Locator and Detail Maps). The area was woods and pasture land before mining. The soil name is Gasconade and is 0" - 2" thick above bedrock. The area is bordered to the southeast by the outer road to I-44, to the southwest by county road X44-238, and to the north by Route JJ.

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MISSOURI LAND  
RECLAMATION COMMISSION

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0 - 2 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Dozers and scrapers will be used to remove topsoil and relocate it in a stockpile.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The dozers and scrapers will be used to remove topsoil and relocate it in a stockpile. The stockpile will be graded and seeded with grass to prevent erosion.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The extra overburden will be used in creating future parking lots and building sites.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See attached map.

**YES NO**☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**
**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

B SEEDING OR PLANTING TIME

#1

Industrial Development

Whenever building is complete

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

The acreage will be a building site, so only a small part of the area will be landscaped. The landscaped area will have grass and shrubs. The equipment used will be a disk, with seed broadcast by hand.

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DEC 04 1997

MISSOURI LAND  
RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	15	Burning bush shrubs	50
Clover	15		

 VEGETATION MIX #2  
None

PURPOSE OR LAND USE

B SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY INCLUDING SLOPES**

The area will be a building site and parking area. All sloped areas will be graded to slopes traversable by farm machinery, including tractors with mowers or bushhogs.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done after quarry is no longer being excavated and equipment is gone. Final grading, including topsoil replacement, will be completed within one year after the expiration of permit or permit renewal on all mined-out portions.

**REPLACEMENT OF TOPSOIL**

Topsoil will be replaced after building sites are started and areas surrounding the building sites are known. All topsoil replacement shall be complete one year after the expiration of permit or permit renewal on all mined-out portions.

**REVEGETATION**

Seeding and planting will be done after buildings and parking lots are completed. Seeding and planting shall be complete within 24 months after the expiration of the permit or permit renewal, with survival of vegetation by the second growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

The combined depth of topsoil (A horizon) + subsoil (B horizon) will be 12 inches.

**D. USE OF LAND WHEN RECLAIMED****ESTIMATED ACRES:**

Estimate acreage of each land use below, after reclamation

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

336

Water impoundments (for wildlife, agricultural, or development)

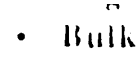
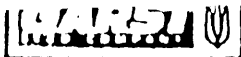
By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED  
DEC 04 1997

MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>David Willard</i>		TITLE <i>Vice President</i>	DATE <i>Nov -26-1997</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>mo.</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Laclede</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>26</i> DAY OF <i>Nov</i> 19 <i>97</i>		
	NOTARY PUBLIC SIGNATURE <i>Kim Aminger</i>	MY COMMISSION EXPIRES <i>2/24/99</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Kim Aminger</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Christopher Shure</i>		DATE APPROVED <i>6/12/98</i>	PERMIT NUMBER <i>0210</i>



Bulk  
Custom Spreading  
Blending  
Chemicals  
Seed

9354 320 W. Pierce St., Lebanon, Mo. 65536  
473-6320 Main Street, Niangua, Missouri 65713

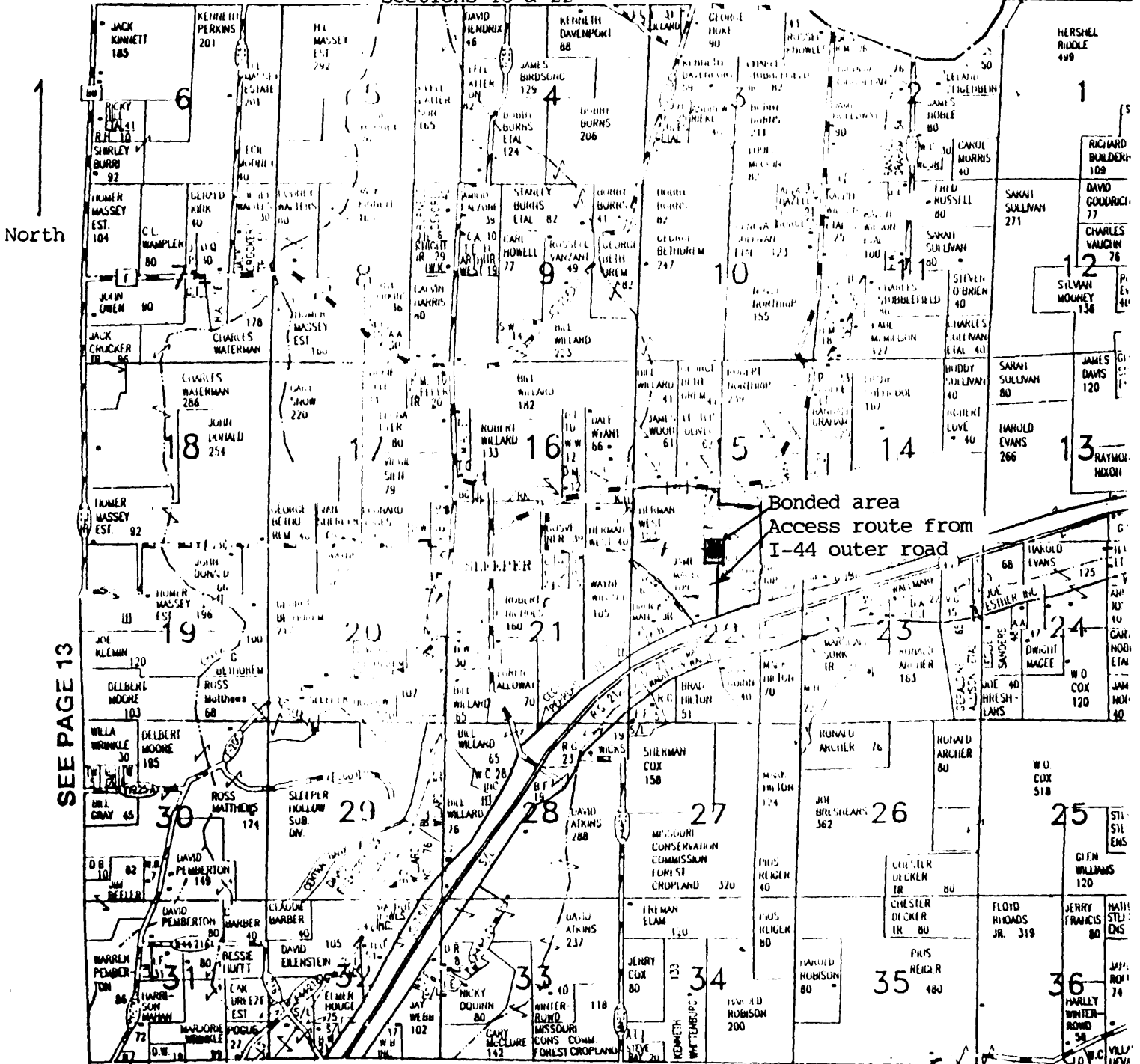
LOCATOR MAP

SEE PAGE 10

TOWNSHIP 35N • RANGE 15W

Laclede County

Sections 15 & 22



Willard Quarries, Inc. - Sleeper East Quarry SEE PAGE 18

Scale: 1" = 4400'

© 1992 Miller Management Services, Inc.

Prepared by: Curtis Heider, EEC  
11/7/97

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DEC 04 1997  
MISSOURI LAND  
RECLAMATION COMMISSION



DETAIL MAP

Scale: 1" = 533'

Prepared by: Curtis Heider, EEC  
11/7/97

NORTHERN R.R.

Hwy. JJ

Property Owner: Willard Quarries, Inc.

Site Name: Sleeper East Quarry

Mine Plan Acres: 336

Bonded Acres: 10

Post-Mining Land Use: Industrial Development

Legal Description: SW $\frac{1}{4}$  (part) and SE $\frac{1}{4}$  (part) of Section 15;

NW $\frac{1}{4}$  (part) and NE $\frac{1}{4}$  (part) of Section 22;

Township 35N; Range 15W

North

15

22

Bonded  
Area

2.01

13.94 Ac (c)

County  
Road

2.03

13.5 Ac (c)

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DEC 04 1997

MISSOURI LAND  
RECLAMATION COMMISSION

I-44 Outer  
Road

2.04

11.3 Ac (c)

2

12.56 Ac

144  
I-44



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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DEC 27 2000

MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER St. Robert Quarry (formerly Old McDowell Quarry)		PERMIT NUMBER 210	
COMPANY NAME Willard Quarries, Inc.			
COUNTY Pulaski	1/4 SECTION SW of S24 & NW of S25	SECTION 24 & 25	
TOWNSHIP 36N	RANGE 11W	ACRES 290	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) NA			
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) NA	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Willard Quarries, Inc.		
ADDRESS P.O. Box 1183		
CITY Lebanon	STATE MO	ZIP CODE 65536
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Same.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
<b>NOTE:</b> Each site must be shown on a map and be included in a public notice and an approved mine plan.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

**MINE PLAN**

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MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: March 2, 2095

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers an area of approximately 290 acres. The mine area lies in topography that is steeply sloped and is currently wooded with native trees. The soil type is classified as "Clarksville-Gepp", characterized by "very cherty silt loams, 14 to 35 percent slopes." A county road passes through the site, while the Dry Creek flows along the south and southeast border of the property and the Big Piney River flows along the northeast border of the property.

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

1 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The limited amount of topsoil will be removed after the existing trees are removed. The topsoil and up to 12 inches (if available) of subsoil will be excavated and stockpiled. This operation will only occur at the locations where surface mining will immediately commence. Equipment used will be a front-end loader.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil and subsoil will be stockpiled at the outer limits of the mine site. Storage piles will have a horizontal to vertical slope ratio of 3:1 and will be situated, graded, and seeded to minimize erosion in accordance with 10 CSR 40-10.050.

DEC 27 2000

**B. SPOIL**MISSOURI LAND  
RECLAMATION COMMISSION

## DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from the pit will be placed in the mined-out portions of the pit and graded to traversible slopes. Grading and seeding will be done continuously as the stockpiles are being built. The grading and seeding will be done to meet the performance requirements of 10 CSR 40-10.050.

**C. ACID MATERIALS**

## DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

## DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The existing pit is in the center of the western half of the bonded area, while a proposed new pit area is the southwest part of the eastern half of the bonded area. See maps for location of bonded area.

**YES NO**

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line?<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)  |

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DEC 27 2000

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION** (Attach additional sheets, if needed)

MISSOURI LAND  
RECLAMATION COMMISSION

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

Industrial

B. SEEDING OR PLANTING TIME

Spring (or first optimal seeding window)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After the topsoil has been replaced, seeding will be done with broadcasting equipment, as topography allows, or by hand where necessary.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue (on sloped areas) Clover	30 10		

VEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DEC 27 2000

**B. GRADING**MISSOURI LAND  
RECLAMATION COMMISSION

## DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The area will become a building site and parking area. All sloped areas will be graded to slopes traversable by farm machinery, including tractors with mowers or bushhogs.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

## GRADING

Grading will be completed as the pit advances into the hillside. Spoil material will be placed in the mined-out pit to ensure drainage. Final grading will be completed within one year of permit expiration in accordance with 10 CSR 40-10.050(10)(A).

## REPLACEMENT OF TOPSOIL

Topsoil and subsoil will be replaced to a uniform depth of up to twelve inches and will be disced to reduce compaction. Topsoil will be replaced within one year of permit expiration in accordance with 10 CSR 40-10.050(10)(A).

## REVEGETATION

Revegetation will be completed during the first optimal seeding window following topsoil replacement in accordance with 10 CSR 40-10.050(10)(B).

## AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

The combined depth of topsoil (A horizon) and subsoil (B horizon) will be 12 inches.

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	290
Water impoundments (for wildlife, agricultural, or development)	

RECEIVED

DEC 27 2000

MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Hand Willard</i>		TITLE <i>President</i>	DATE <i>12/26/00</i>
NOTARY PUBLIC EMBOSSER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Laclede</i>	
SUBSCRIBED AND SWORN BEFORE ME, THIS <i>26</i> DAY OF <i>Dec</i> <i>18</i> 2000		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE <i>Kim Amstrong</i>		MY COMMISSION EXPIRES <i>4/12/03</i>	<b>KIM AMSINGER</b> Notary Public - Notary Seal STATE OF MISSOURI Webster County My Commission Expires Apr. 12, 2003
NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Kim Amstrong</i>			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Alice Zimmer</i>		DATE APPROVED <i>12-28-00</i>	PERMIT NUMBER <i>0210</i>

Willard Quarries, Inc.  
St. Robert Quarry  
(formerly Old McDowell Quarry)

Locator Map

Prepared by: Curtis Heider, EEC  
Date: December 13, 2000

Scale: 1" = 2,000'



KEY

Bonded Area

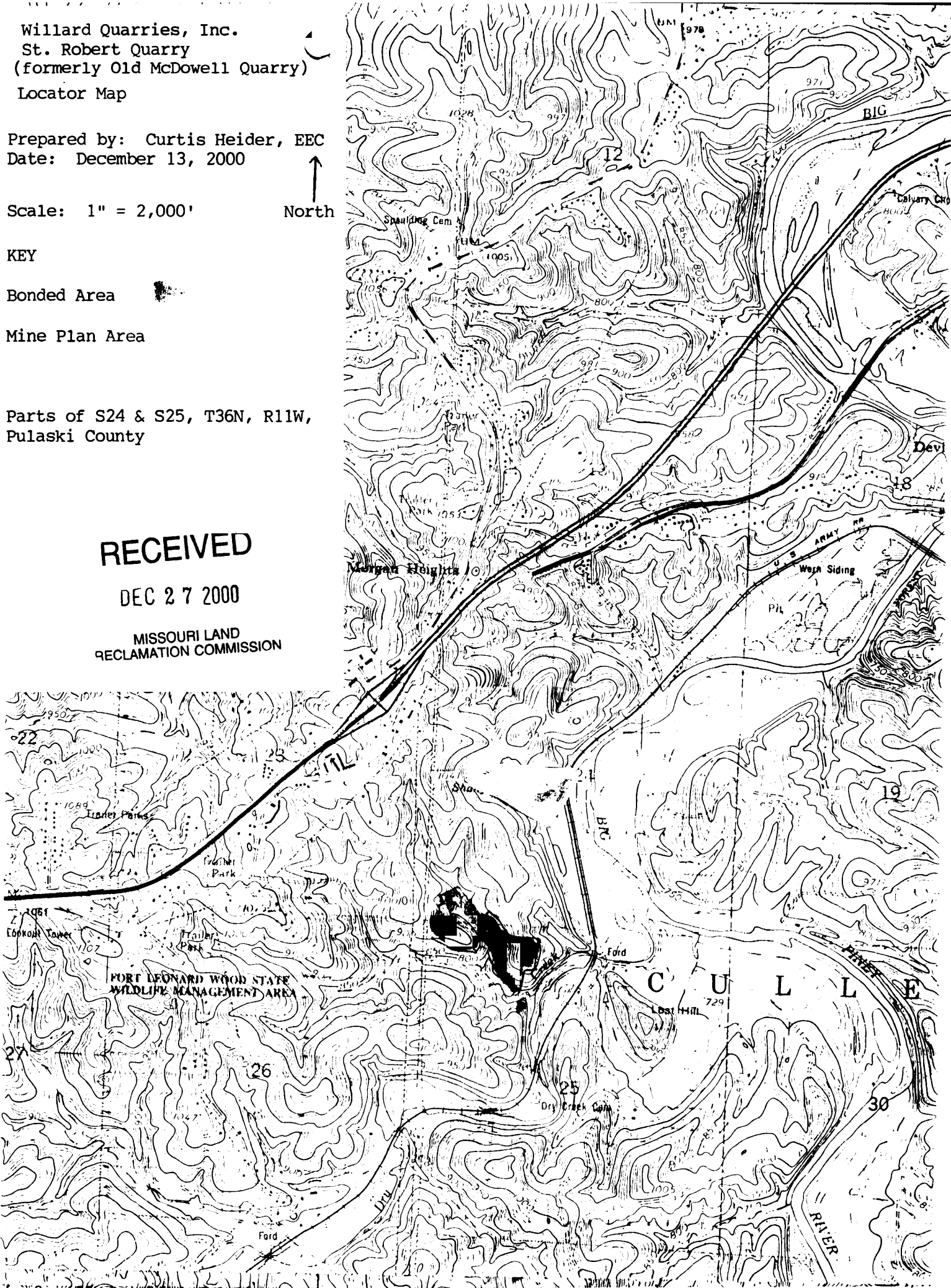
Mine Plan Area

Parts of S24 & S25, T36N, R11W,  
Pulaski County

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MISSOURI LAND  
RECLAMATION COMMISSION





DETAIL MAP  
WILLARD QUARRIES, INC.  
St. Robert Quarry  
(formerly Old McDowell  
Quarry)  
Permit #0210

Landowner: Willard Quarries  
Inc.  
Parts of S24 & S25, T36N,  
R11W, Pulaski County

Post-mining land use:  
Industrial

#### KEY

Mine Plan Area

Bonded Area

Public Roads

Dry Creek

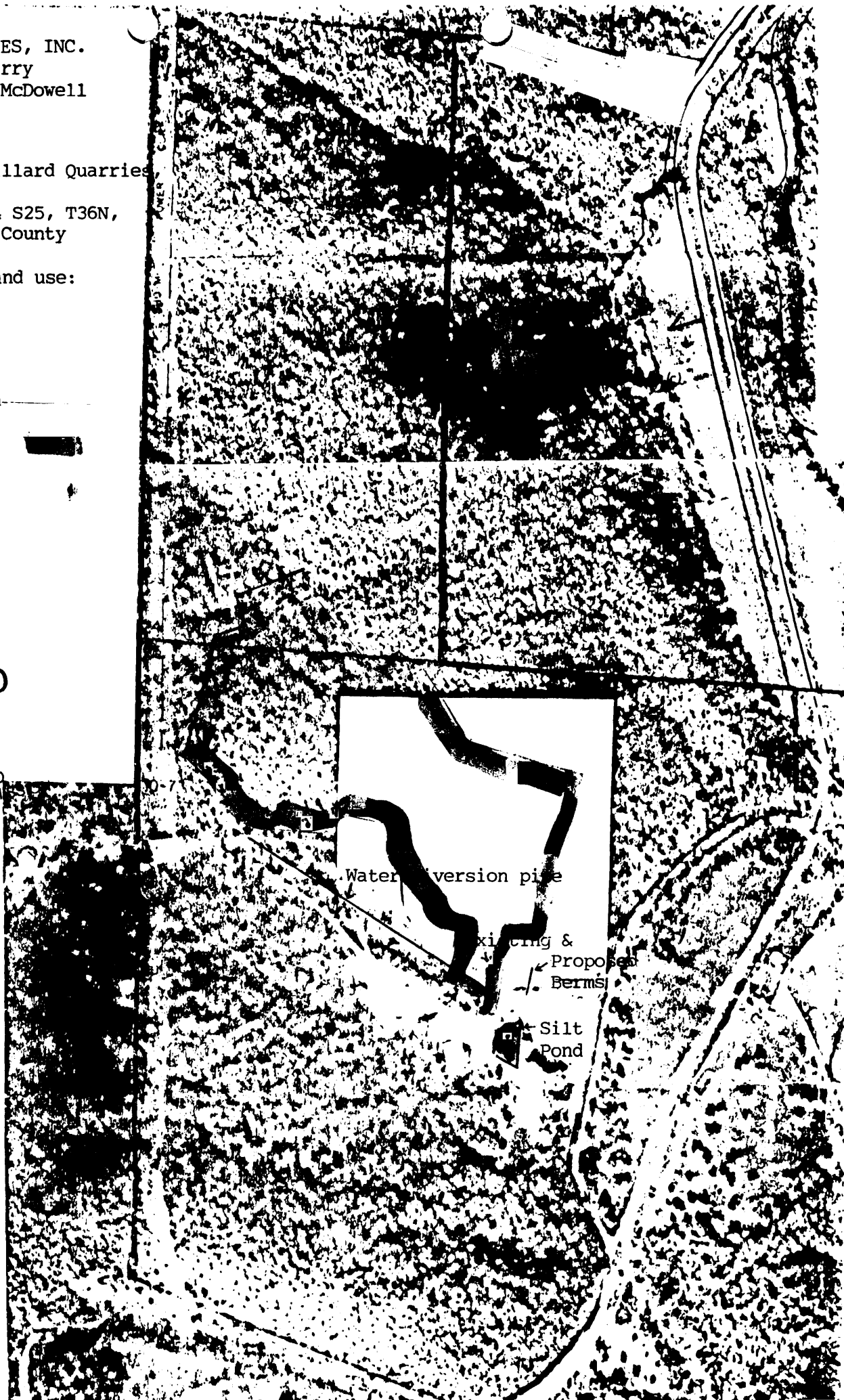
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MISSOURI LAND  
RECLAMATION COMMISSION

↑  
North

Scale:  
1" = 561.4'



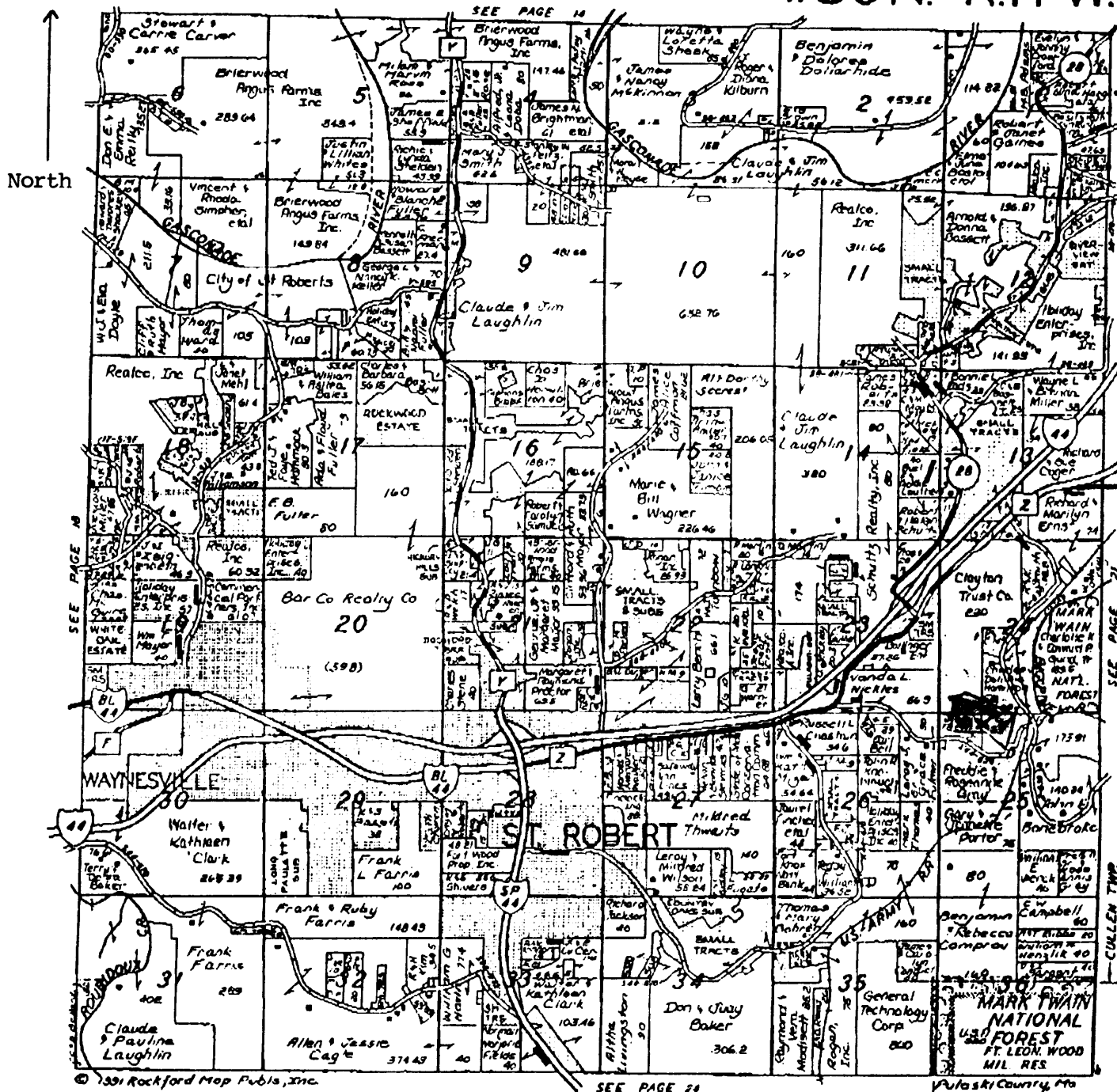
# LOCATOR MAP

20

NORTH CENTRAL  
R.A.O.T.

## CULLEN

T.36N.-R.11 W.



Scale: 1" = 4600'

Date of preparation: 10/8/98

Map prepared by: Curtis Heider, EEC

Willard Quarries, Inc.

St. Robert Quarry

Pulaski County,

S25, T36N, R11W

old McSowell  
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KEY

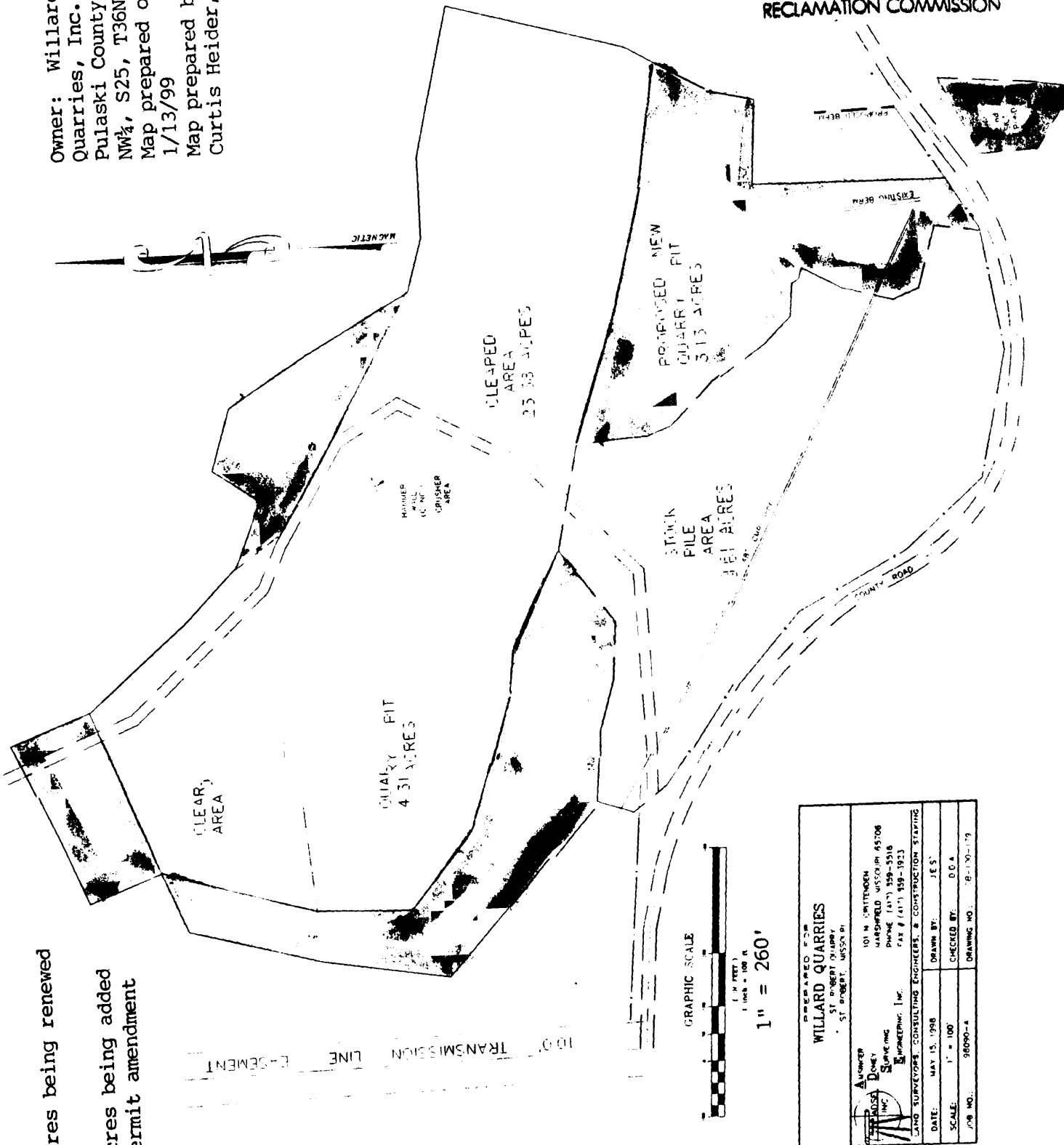
20 acres being renewed

12 acres being added  
in permit amendment

DETAIL MAP

Owner: Willard  
Quarries, Inc.  
Pulaski County  
NW $\frac{1}{4}$ , S25, T36N, R11W  
Map prepared on:  
1/13/99  
Map prepared by:  
Curtis Heider, EEC

*Old McLowell*



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MISSOURI LAND  
RECLAMATION COMMISSION

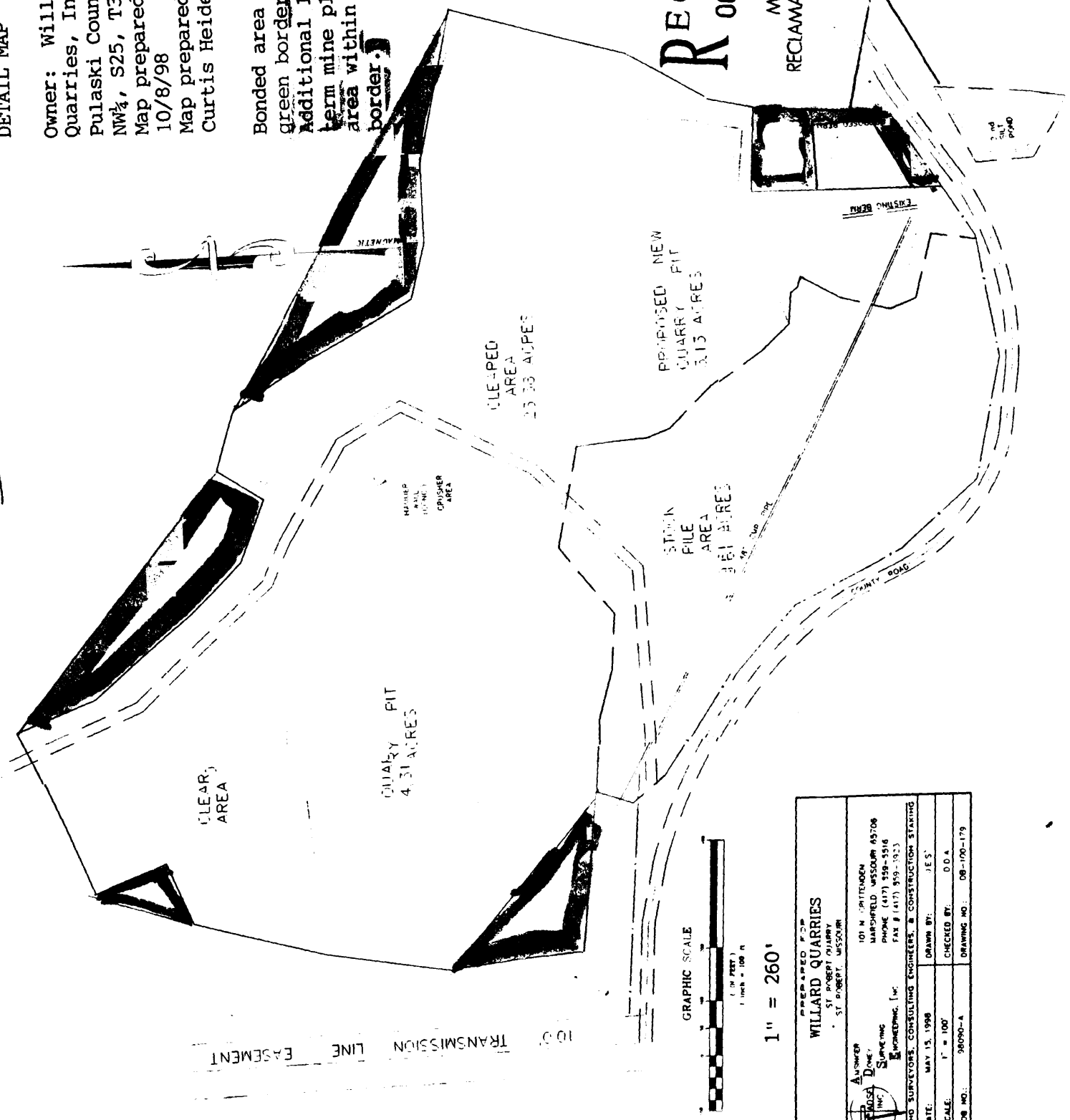
<p>PREPARED FOR <b>WILLARD QUARRIES</b> ST. ROBERT, MISSOURI</p>		<p>101 N. SULLY HARDFIELD, MISSOURI 65708 PHONE (417) 959-5316 FAX (417) 959-1923</p>	
<p>OWNER <b>WILLARD QUARRIES, INC.</b></p>		<p>ENGINEERING <b>LAND SURVEYORS, CONSULTING ENGINEERS, &amp; CONSTRUCTION STAFFING</b></p>	
DATE:	MAY 15, 1998	DRAWN BY:	JES
SCALE:	1" = 100'	CHECKED BY:	DGA
JOB NO.:	98090-A	DRAWING NO.:	18-100-179

Old Mcbowell

DETAIL MAP

Owner: Willard Quarries, Inc.  
Pulaski County  
NW $\frac{1}{4}$ , S25, T36N, R11W  
Map prepared on:  
10/8/98  
Map prepared by:  
Curtis Heider, EEC

Bonded area within green border.  
Additional long term mine plan area within plan border.



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Silt Ponds  
1 acre total

PREPARED FOR <b>WILLARD QUARRIES</b> ST. ROBERT, MISSOURI	
101 N. CANTERBURY WARSHFIELD, MISSOURI 65706 PHONE (417) 959-5516 FAX (417) 959-1923	
DRAWN BY: JES CHECKED BY: D.D.A. DATE: MAY 13, 1998 SCALE: 1" = 100'	
JOB NO.: 98090-4 DRAWING NO.: DB-100-179	

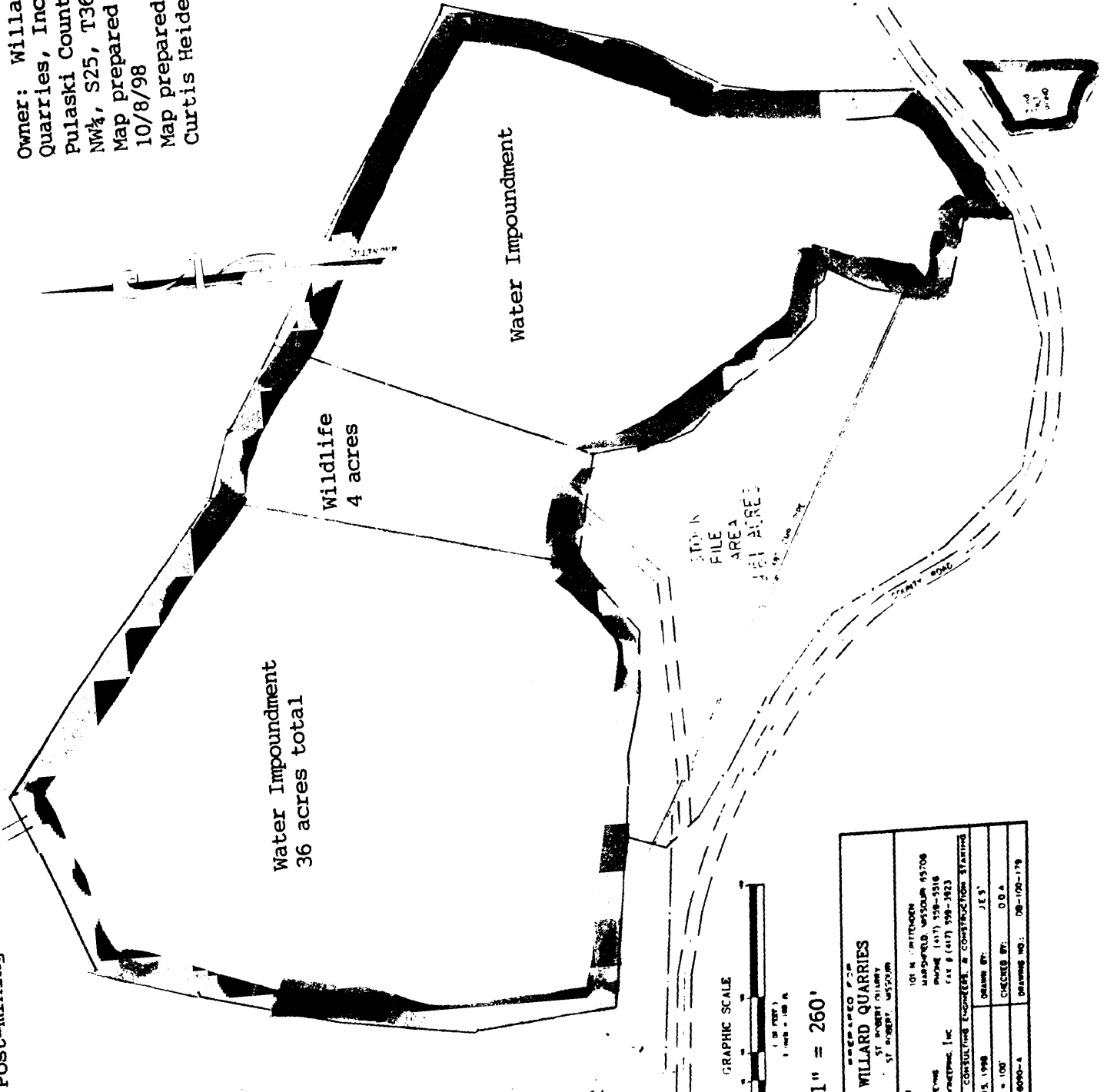
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MISSOURI LAND  
RECLAMATION COMMISSION

DETAIL MAP

Owner: Willard  
Quarries, Inc.  
Pulaski County  
NW¼, S25, T36N, R11W  
Map prepared on:  
10/8/98  
Map prepared by:  
Curtis Heider, EEC

Post-mining land use areas



GRAPHIC SCALE



1" = 260'


<p>DESIGNED BY: <b>WILLARD QUARRIES</b> ST. LOUIS, MISSOURI ST. LOUIS, MISSOURI</p>		<p>101 N. JEFFERSON ST. LOUIS, MISSOURI 63108 PHONE (314) 598-1516 FAX (314) 598-1523</p>	
<p>DATE: MAY 15, 1998</p>		<p>DRAWN BY: JES</p>	
<p>SCALE: 1" = 100'</p>		<p>CHECKED BY: D.O.A.</p>	
<p>JOB NO.: 94000-1</p>		<p>DRAWING NO.: 08-100-179</p>	


DETAIL MAP  
WILLARD QUARRIES, INC.  
St. Robert Quarry  
(formerly Old McDowell  
Quarry)  
Permit #0210

Landowner: Willard Quarries  
Inc.  
Parts of S24 & S25, T36N,  
R11W, Pulaski County

Post-mining land use:  
Industrial

KEY

Mine Plan Area 

Bonded Area (existing) 

Public Roads 

Dry Creek 

Amendment Bond Area 

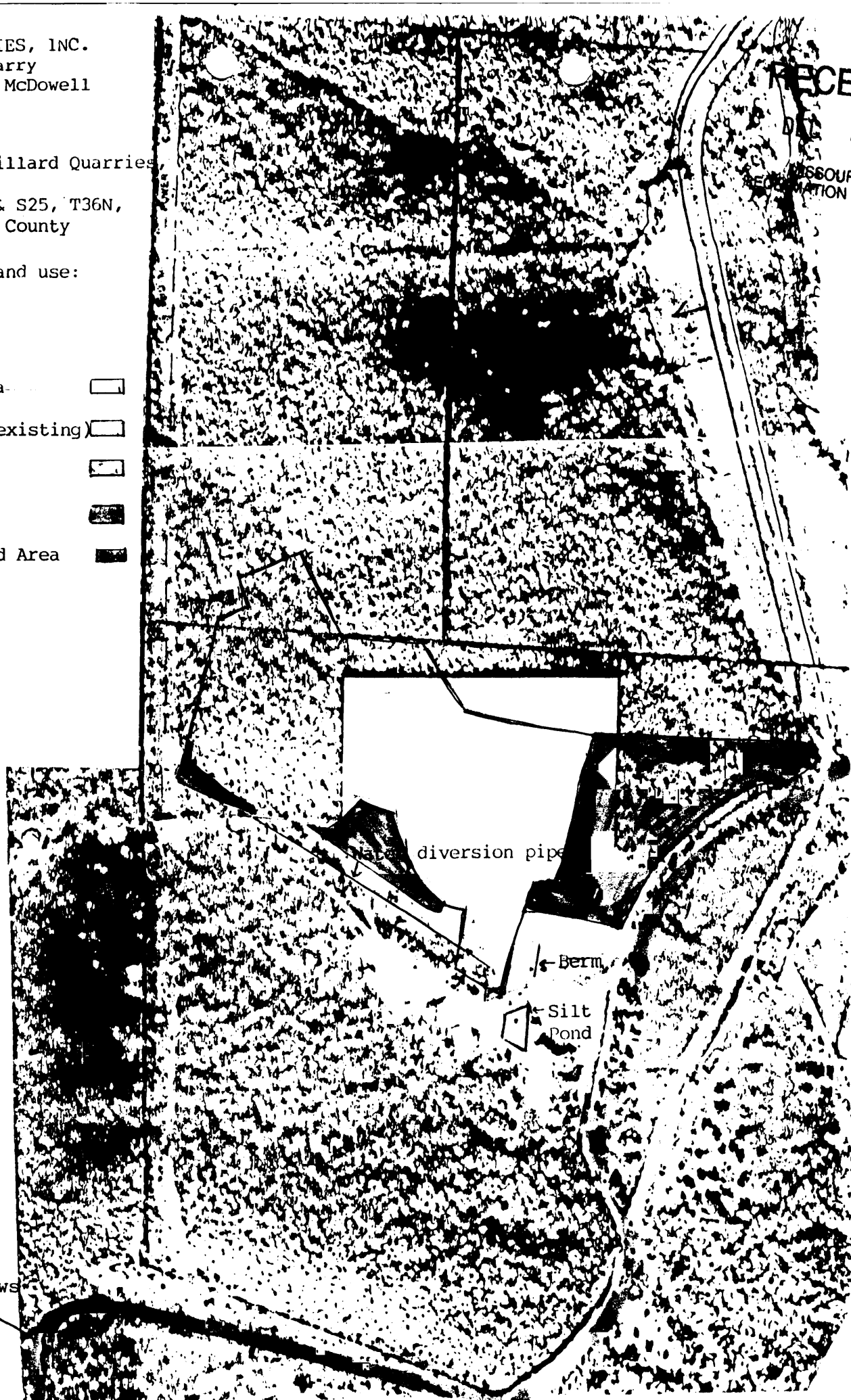
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DEC 5 2001  
MISSOURI LAND  
RECONSTRUCTION COMMISSION

  
North

Scale:  
1" = 561.4'

Prepared by:  
Curtis Heider,  
EEC, 11/21/01

Dry Creek (flows  
along south  
border of Mine  
Plan Area )





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Marshfield Quarry, Webster County		PERMIT NUMBER 92-210
COMPANY NAME Willard Quarries		
COUNTY Webster	1/4 SECTION S1	SECTION S-1
TOWNSHIP T31N	RANGE R18W	ACRES 10
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Bill Don Willard and Louise I. Willard		
ADDRESS Route #5, Box 274		
CITY Lebanon	STATE Missouri	ZIP CODE 65536
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT   
		<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Homer A. Stevens, Jr.		
ADDRESS Route #3		
CITY Marshfield, Missouri 65706	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 9-92
		<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
MINE PLAN

P.O. BOX 178  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE:

1-21-93 to 1-21-2068

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Area was woods and pasture land before mining.  
The soil name is gasconade and is  
0-2" deep.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

0-2

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

We will use dozers and scrapers to  
remove topsoil and relocate in a  
stockpile. The soils name is gasconade and is  
0-2 inches deep.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

We will use dozers  
and scrapers to remove topsoil and relocate  
in a stockpile. It will be graded and seeded  
to prevent erosion.

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RECLAMATION COMMISSION

JAN 28 1993

MISSOURI LAND  
RECLAMATION COMMISSION

Marshfield



**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from the pit will be placed in the mined-out portions of the pit and graded to traversable slopes.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The pit is located on the south-side of Bill Willard's property, and the south west side of Homer A. Stevens property

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28 1993

YES

NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

Marshfield

**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION (Attach additional sheets, if needed)**

REVEGETATION MIX #1

PURPOSE OR LAND USE

Water impoundment  
slopes

B. SEEDING OR PLANTING TIME

After mining is complete

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

We will have little area to seed, since most of our 10 <sup>acres</sup> ~~acres~~ will be under water. What little area we have above water will be disked and seeded by hand.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	15		
Clover	15		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
<div data-bbox="183 1558 557 1818"> <p>RECEIVED DEC 21 1992 MISSOURI LAND RECLAMATION COMMISSION</p> </div>		<div data-bbox="678 1530 1101 1902"> <p>RECEIVED JAN 21 1993 MISSOURI LAND RECLAMATION COMMISSION</p> </div>	

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

water reservoir. The ~~10 acres~~<sup>10 acres</sup> will be a water reservoir. The slopes of the water reservoir will be graded and seeded.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Slope grading will occur after mining is completed. Grading including all topsoil replacement shall be complete within 12 months after the expiration of the permit or initial permit renewal.

**REPLACEMENT OF TOPSOIL**

The part of the slopes above water will have 2-4 inches of topsoil placed. All topsoil replacement shall be complete within 12 months after the expiration of the permit or initial permit renewal.

**REVEGETATION**

All area above water will be seeded. Seeding and planting shall be complete within 24 months after the expiration of the permit or initial permit renewal, with survival of vegetation by the second growing season. per Dec 4.26.94

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

1-2 inches + 10 to 11 to total 12"

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

Marshfield

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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JAN 28 1993  
MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>David K. Willard</i>		TITLE <i>Manager</i>	DATE <i>1-25-93</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Laclede</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>25<sup>th</sup></i> DAY OF <i>Jan</i> 19 <i>93</i>		
	NOTARY PUBLIC SIGNATURE <i>Jim AmSinger</i>	MY COMMISSION EXPIRES <i>3-22-95</i>	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Jim AmSinger</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Dan...</i>		DATE APPROVED <i>4-27-94</i>	PERMIT NUMBER <i>210</i>

*Marshfield*

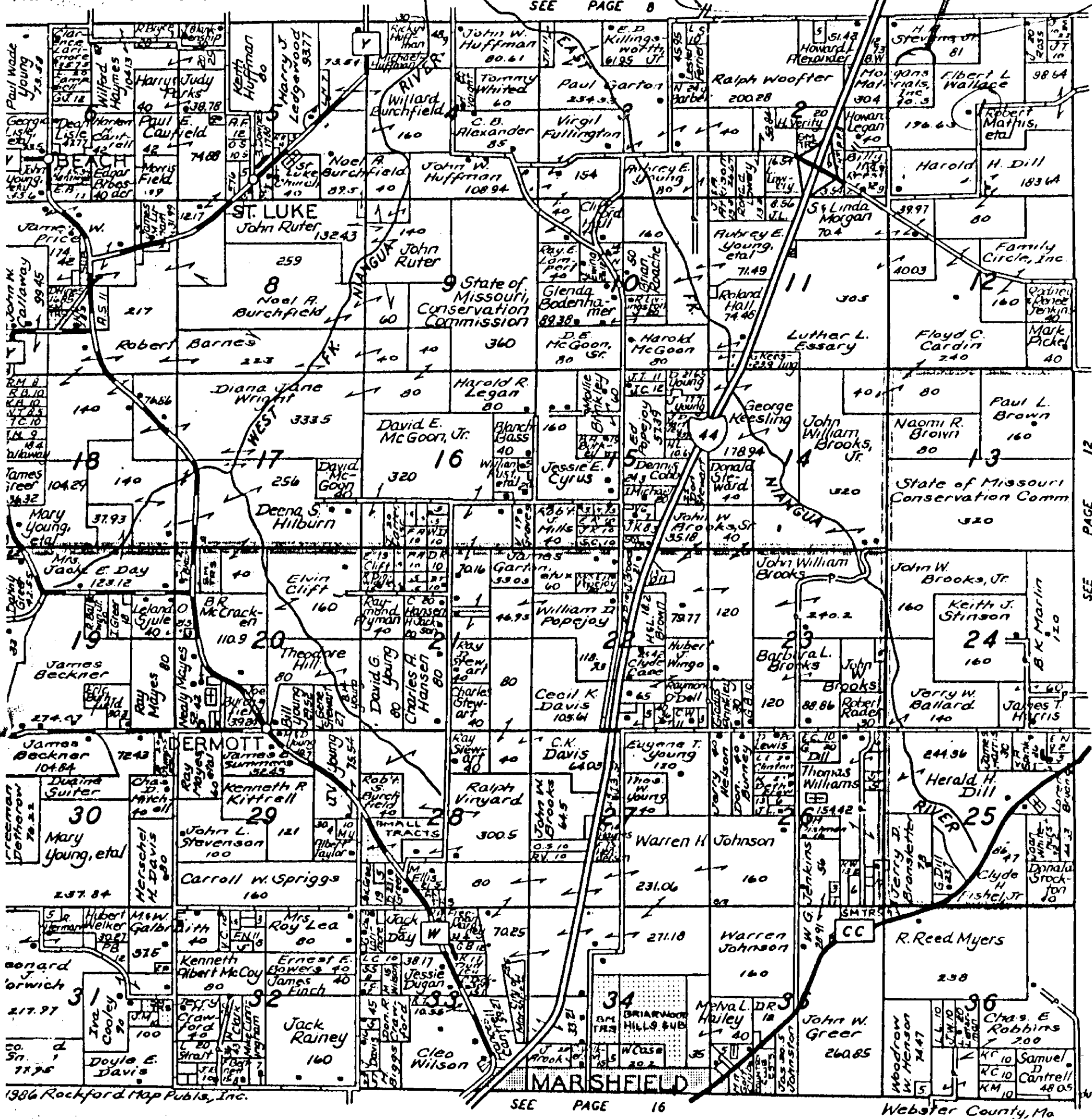
SOUTHWEST  
PART  
NORTHWEST  
PART

WASHINGTON  
OZARK

WEST  
PART  
NIANGUA

SEE PAGE 8

T.31N.-R.18W.



WEBSTER COUNTY'S LARGEST VETERANS ORGANIZATION

**Webster County Post 4101 Inc.**

Veterans of Foreign Wars of the United States

AN ORGANIZATION OF VETERANS SERVING VETERANS

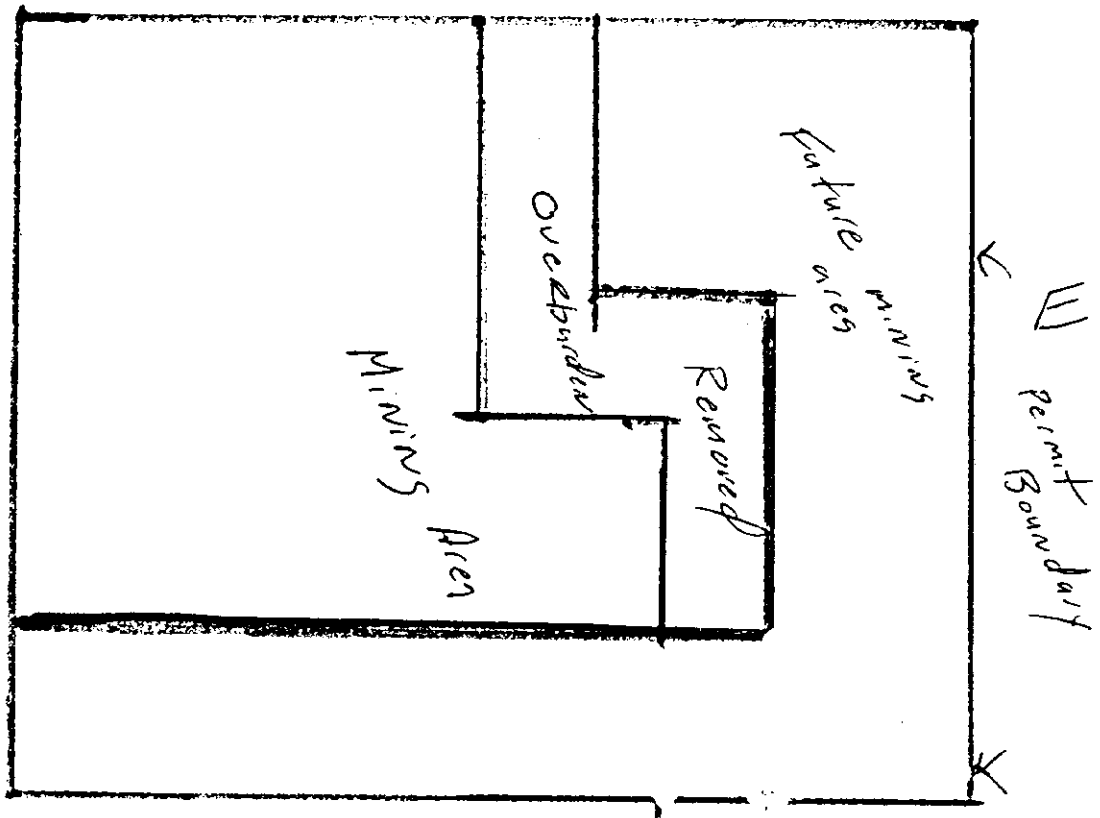
248 East Jackson Street, P.O. Box 174, Marshfield Missouri 65706 • Phone: (417) 468-9910

IF YOU ARE A WAR VETERAN, POST 4101 NEEDS YOU.



Marshfield Quarry  
Webster Co. S1 T31 N  
R18W  
AH.B

Not to Scale



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Marshfield